

A SYSTEM AND PROCESS FOR AUTOMATICALLY DETERMINING OPTIMAL IMAGE COMPRESSION METHODS FOR REDUCING FILE SIZE

Abstract of Disclosure

The present invention operates as an expert system to automatically determine an optimal method for reducing the size of an electronic file containing at least one embedded image by determining optimal methods for compressing each image. Further, in one embodiment, linked images are also compressed. User control of relevant parameters such as image compression options, retention or removal of unnecessary data associated with embedded or linked images, and downsampling images to better match the output resolution of specific output devices is provided in further embodiments. Further, to prevent cumulative degradation of images through repeated lossy compression, images that have already been compressed or optimized are preferably flagged so that they are not compressed more than once.

Figures

Figure 1: A diagram illustrating the relationship between the variables x , y , and z . The diagram shows a set of three variables $\{x, y, z\}$ and a set of three variables $\{x, y, z\}$ connected by a double-headed arrow, indicating a relationship or interaction between them.